Line Holland

### The Imperial Bureau of Entomology.

Head Office at-

Director:
GUY A. K. MARSHALL, D.Sc.

453/

BRITISH MUSEUM (NATURAL HISTORY),

CROMWELL ROAD, LONDON, S.W.7.

2nd July, 1919.

Dear Sir,

I thank you for your letter of 28th March, and for the specimens of flies which you have bred from beans. These insects undoubtedly belong to a species of Agromyza, but the material is in such poor condition, owing to the specimens having been preserved in spirit, that I find it impossible to identify them with certainty. I shall, however, be sending them shortly to Prof. Bezzi, and will let you know as soon as I hear from him about them.

I remain,

Yours faithfully,

Director.

J. H. Burkill, Esq., Director,

Botanic Gardens, Singapore,

Straits Settlements.

### A pean Pest. ( Phaseclus lunatus), Rangcon bean.

beans, the progress of the same was and is sericusly hampered with because of the peak. It was noticed in the Nursery and in the block no.13 that the seedlings of the bean were wilting. On examination of the seedlings, it was conserved that the injury was being done by a magget like—larves/ and a fungus Rhizoctonia.

It cannot definitely be said which attacks the seedlings first. Thorough exam of the sail and the seedlings indicated that the attack was severe in those cases where raw and not thoroughly decayed manure was applied. ( This was put just underneath the seedlings.)

The life history of the pest:---

The eggs are laid either on the decayed stem or in the soil. The tiny magget comes out and begins its work on the plant. The larves commences the work from down the root and can be seen migrating up the stem and into the petioles. It is a soft creamy white legless larva turning brown in its later moults. (The simultaneous action of the fungus and the magget pull down the seedling to the ground, the stem being exceedingly flaceid. Most of the rhizoctonia symptoms can be seen on the seedlings.

A few of the seedlings were lifted with a lump of soil — and put into a small earthen pot to work it s life history.

The pot was enclosed into a cage. The larvel period covers 10—15 days. They all formed brown cloured cocoons wherever they were feedings.

The pupul period extends from 8--10 days.

The image emerges out through either of the black tops,
h
—a cycloraphous fly— The fly is very sluggish and does
not care to move though disturbed. They were caught very
easily. After emerging out, they either rest on the plant or
on the soil, where eggs are laid.

The effect on the plant:—— The magget eats into the pith and the cuter bark going up through the same. The part splits into due to the stimulation. Another cuteems of the stimulation is the attempt of the plant to give out accessary roots either from the firstxintsracesxor the second cas. internode. The tap root does not developy to its normal size. The seedling expires within a few days.

The treatment: The assit. Curator was advised to use scap water against the pestand to lift up the manure. For rhizoctonia the soil was disinfected with Napthalene.

Beans were sown second time in the same place, and it was observed that thrughxthexattasxxwasx the pest still did exsist though the virulence was checked to a little extent.

The image period.

Diagrams of the various stage: of the insects

magget projection

shypinago; cyclorhapha thy.

Botanie Gardens, Singapore,

28th. March, 1919

Dear Sir.

I am asking you the favour of a determination for the little Anthonyiid-like fly sent by post herewith. There are two tubes of it, the larva and pupa in the second.

This little insect is attacking our experimental beans; and one of my assistants, Mr. G.B.Deshmukh, has worked out its life distory thus far. The graduations the seedling bean boring down into the root or up into the stem and then into the petioles. At the same time a fungus is liable to develop and the seedling succumbs. After 10-15 days of larval life the grab pupates where it has been feeding and as a pupa lives another 8-10 days. The mature fly is not active. It looks for a mate and for a place in which to lay eggs more or less where it itself hatched. This suggests that it is a general feeder for beans are not common enough here to let a lazy fly entirely dependent on them persists.

Lean plants of some size which have the grubs in their pith feeding are liable to crack down the stem, and in the effort to carry on to throw out adventitious roots.

I am, Yours faithfully,

Director of Gardens, S.S.

The Director,

Imperial Bureau of Entomology.

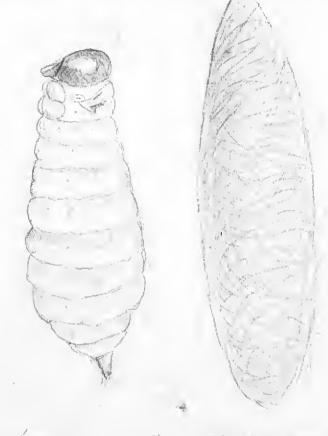
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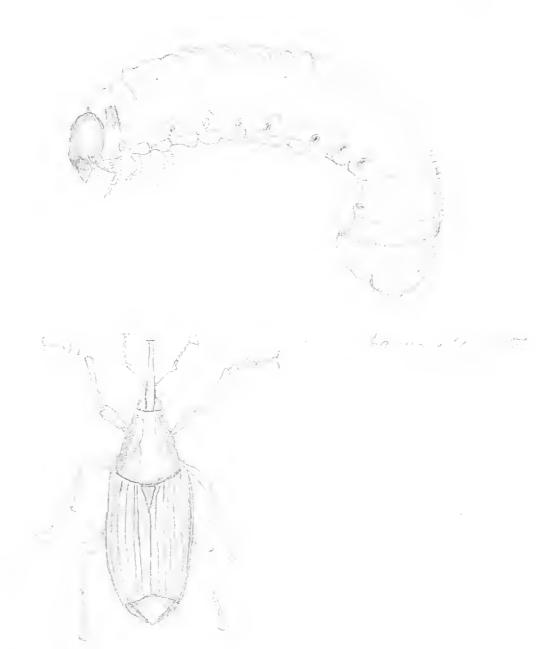
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A STATE OF THE STA



Lauren Charpetern.



and the file of the second

Bally of Kanan

TAPA.

PERAK.

Straits Settlements.

3 denne 1899

- Ridley Ez Butanie & anden Sugapore

a man box enitaring non mand brown beeth, which I have day up from the ground around the roots of none man porteen a rambular brees in my plantation him I have prof aures planted with these bees, a the peater number are runtime and having are their leaves eater off & none insult, my habrens say the beether of which I am sinding you specimen.

do all the damage, we can see nothing

B8.5/9. It is down at night

in severes just luneath the PERAK. Jungase of the pound, beneath Straits Settlements. the hees which are attached he muse care they have eaten aci the leaves from the hers of they have consequently doid had in any care the dannage is throwing the hers back considerably I share be much obliged of jour urried let me know whether in prin opine then usuti an urponsely for this + if w. if pur recold your any advin as to jetting rid of them y shall be very pateful. form fact full "G. L. Backey

88.5/10

#### SUMMARY OF HOME NEWS.

to-day. Elaborate arrangements have been the House of Commons the Indian Budget has lamps. made to give Her Majesty a very hearty reception presented, and, as is usual, discussed be- 4. The President lays before the Council a tion. Lord Knutsford will be the first force thin House. It presents no remarkable letter from Government on the subject of the Minister in attendance on the Queen in Scot. features. There is an improvement in the re- proposed regulations for the granting of penland. It is stated that the Queen has venue in 1888-9 over that of 1837-8. Consider- sions to Municipal Officers. presented a life-size portrait of herself to able savings have been made in the expendi- Resolved "That the letter be circulated and

the Irish Estimates. A proposal was made to generations has been the bete noire of the 6. The President lays on the table a map reduce the salary of the Chief Secretary, and Liberal party. Sir H. Maxwell, in reply to of the Municipality and after some discussion, for the conveyance of Her Majesty's mails routes. between Canada and Hong Kong has been

be ceded to the company. the week by a serious strike among the London dock labourers, which is becoming more serious and more extensive every day. The movement be arranged to the satisfaction of both parties Mr. Capel will give the small piece of land is considered to be the most formidable one that has taken place in their body since 1872. Processions numbering some 10,000 men have paraded the principal thoroughfares of the City. The men demand sixpence an hour instead of fivepence, and a redress of their grievances in several particulars. The position of affairs at the various docks is serious. On one day, it was alleged, there was only one vessel loading. The dock companies pany will be found elsewhere. The strike is Mr. McLarty seconds the motion and lately employed in the office of the express their confidence that the strike will causing great excitement throughout the addresses the Council. collapse. The Home Sccretary's decision in metropolis. In the midst of all these difficul- The motion is then put to the vote with the the Maybrick case is at last known. The ties, public attention has been somewhat result that two vote for and three against it, sentence of death is to be commuted to penal diverted from the minic warfare which has and the motion is thereupon declared to servitude for life. In the official announce- been going on round our coasts. The enciny be lost. ment on the subject it is stated that, although has not been idle. Aberdeen, Peterhead, and After some discussion, it is, however, rethe evidence tends clearly to the conclusion Leith have been captured by Rear-Admiral solved to obtain statistics from the Health that the prisoner administered and attempted Darcy-Irvine under more or less exciting Officer as to the spread of disease since the to administer arsenic to her husband, yet it conditions, and in the absence of tangible foes repeal of the Contagious Diseases Ordinance does not wholly exclude a reasonable doubt some of the defending flotilla from Pembroke 11. The President lays before the Council Rawang mines. It appears that the whether his death was in fact caused by the Haven have been involved in active hostilities a paper on the subject of the drainage of Bank of Kwala Lumpur has advanced administration of arsenic. A strong opinion against their own friends. War, however, Green Hall, and it is resolved that the matter money, under guarantee, to prevent the is being expressed in influential quarters that has now ceased; but it is too early yet to be referred to the "Works Committee" for loss of the concession. a Court of Criminal Appeal should be esta- speak of the general results, which on the report blished, and Lord Esher suggests the lines on whole, however, have not been unsatisfactory. 12. It is resolved to defer the further conwhich such a court should be constituted. On The excitement about the Maybrick case has sideration of the papers regarding the drain- change will shortly take place in the the other hand, however, Lord Bramwell takes now subsided. What has become of the age of Argyll Road until next meeting. an opposite view to the Master of the Rolls, enthusiastic agitators who, on receipt of the 13. The Engineer submits design and The Naval Manœuvres have again opened news that the death sentence was commuted estimate for the relaying of portions of the badly for Admiral Baird, who has lost three of to one of penal servitude for life, were not drains in Mantri Street and Cintra Street. his best ships to Admiral Tryon in an engage- going to rest content until a free pardon was Resolved that tenders be called for this ment off Cape Ushant. In other respects obtained nobody knows. At any rate, they work, there is little of interest to record, so far are silent for the present. Mrs. Maybrick has 11. The present lays on the table a plan of as home news is concerned. Events in Ireland are not so startling, although convict prison at Woking. The old truism. "Be sea, and Mr. McLarty having retired, the a determined attempt has been made to shoot Mr. William Blood, a magistrate and a landed proprietor, but fortunately without any evil result. We are pleased to record while on the subject of Ireland the continued growth of the Irish woollen trade, which is undergoing a considerable revival. Lady Macartney was summoned and fined for assaulting two of her domestic servants. is now yet definitely decided that Mr. Chaplin is to be the First Minister of Agriculture. The name of Sir Matthew White Ridley is also mentioned in this connection. In foreign affairs we are pleased to be able to announce that the crisis in Crete, which has caused so much alarm in Europe, is now almost over, and affairs in the island are in a satisfactory way toward settlement. The position of England and Germany in East Africa has been prominently to the front again during the week. The tone of the meeting of the German East African Company was decidedly hostile to England, and a good deal has been written in the Continental Press on the subject. Queen Nathalie has postponed her visit to Belgrade, ostensibly on the ground of ill-health. Sanction has been given to a measure of the Canadian Parliament which is intended to put a stop to rings and trusts calculated to frustrate the legitimate movements of trade. Generally speaking, the European situation is unchanged. The Imperial visits which have recently taken place are regarded as having strengthened the probabilities of peace.

GERMANY.—The Emperor William has visited Strasburg, and his reception has been marked by extraordinary enthusiasm. This hearty welcome is regarded as a proof that little by little the idea that Alsace-Lorraine is an inseparable part of the German Empire is gaining ground amongst the population there.

FRANCE.—The sentence of the High Court of Justice is the topic of discussion. General Boulanger has issued another manifesto, in which he expresses his confidence in the firm attitude of the electoral body. A grand banquet has been given by the municipality of Paris to the Mayors of France. The number of mayors who attended the banquet was

HOLLAND. The condition of the King is still favourable. The Second Chamber of the States-General has assembled. An arrangement has been come to between the Royal Packet Navigation Company and the Netherlands-Indian Steamship Navigation Company with regard to the service of steamers to Java.

United States.—A warrant has been issued for the arrest of Justice Field, in connection with the shooting of Mr. Terry. The prize- Present:—The Hon. C. W. S. Kynnersley through, and, as a supreme and Asiatic recruiter of the labour barque Vautilus were imprisonment.

### [August 30th.]

her long promised visit to Wales, where Her confirmed. Majesty has met with a most enthusiastic re- 2. The President lays on the table a letter assembled before the palace, and a discord- belonged. Upon making inquiry into the ception. The Royal visit seems to have given from Government sanctioning the acquisition the greatest gratification to the people of of the strip of land required to widen the en- de Corneville " and the " Masscotte " causing great mortality had lately visited horour of Knighthood upon the Mayor of be now taken to acquire the land, which is Wrexham. The Duke of Connaught, who re- agreed to turns to England next March, will travel home 3. The President lays before the Council a with "En revenant de la Revne." But professor of witchcraft, the epidemic was via China, Japan, and Canada.

of the members of both Houses have already the Temple. (London and China Express, Aug. 23rd.) left town. In the House of Lords a number | Resolved "That it be first ascertained more The Court.—The Queen is expected in Wales of measures have been advanced a stage. In exactly where it is proposed to erect the ture of the Civil Department The usual brought up again at next meeting." Parliament.—No business of importance resolution was agreed to The Irish votes 5. After some discussion as to the advisa-Considerable discussion has taken place over of concurrent endowment, which for them opposite the jetties,

approved. Baron H. de Worms informed Mr. amongst the dock labourers has assumed the missioners. Hunter that, owing to the insufficiency of the most alarming proportions. It has spread in 7. The plan of the proposed pavilion to of the town-Middle Road and behind revenue of Labuan to maintain an efficient other directions, until considerably over a be erected on the esplanade by the Penang Colonial Administration Her Majesty's Gov- hundred thousand men have been affected. Recreation Club is approved the site for the ernment had proposed that the Chartered Fortunately, the crisis which threatened in same to be as nearly as possible opposite the Pagar Road the roads were covered British North Borneo Company should take the coal trade has been averted, the employers Penang Cricket Club pavilion. over the administration of the island, which conceding the demands of the men. Prolonged 8. The President lays before the Council a GENERAL -London has been agitated during and wharfingers, with the result that the Police station he rounded off. except that for an additional penny per hour. | required. the meantime the trade of the port of London | against Mutusamy. Sutherland, M.P., the Chairman of the com-the effectual control of prostitution. been removed from Liverpool to the female the district between Bridge Street and the sure your sin will find you out," seems to be Commissioners decide upon the sites for the especially exemplified in the case of the steam-proposed four new ghants, the President ship Mogal, for both the first and second cook initialling each site on the planhave just been convicted of smuggling. The 15. 12 plans are submitted of which 9 are two stewards of the vessel have already been approved, and 3 returned for amendment, convicted of a similar offence, and heavily. The Commissioners adjourned till Friday fined. The death is announced of the to the Web instant. Samuel Beal, a professor of Chinese in the Read and confirmed the 20th day of Sept., London University. Mr. John Sanger, the 1889. famous circus proprietor, is also dead. A scheme has been set on foot for building a Special Meeting held on the 30th Aug. 1889. tower, similar to the Eiffel Tower at Paris, in London. Sir Edward Watkins is identified with the project. In foreign affairs there is little new to note. Mr. Gladstone has sent to the Press reliable information which he has obtained of some terrible outrages in Armenia. Affairs in Crete are quieter. The European situation is unaltered. England's attitude towards the Triple Alliance is the chief topic

of discussion. GERMANY.—The Emperor and Empress contunning their journey were received at Metz with an enthusiastic and popular greeting. Their Majesties have now returned to Potsdam. The visit of the Czar, it seems, is still a matter of speculation. Mr. Teindel, formerly a Deputy-Consul at Tientsin, has been promoted to the rank of a German Consul at Amoy. The German Ambassador for China is expected shortly to return to the East.

FRANCE.—The elections are fixed for Sept. 22. General Boulanger is to stand for Montmartre. There has been some Boulangist rioting at Paris, and a number of arrests were | President :-- The Hon. C. W. S. Kynnersley,

Holland. - The subject of the revision of the Education Code is occupying the attention of the States-General. A commission has Absent :- R. A. P. Hogan, Esq. been appointed to inquire into the necessary Bank, has been appointed President of the meeting will be held for the purpose. Java Bauk

United States. Further seizures of the 13th September. schooners, both British and American, in the Beliring Sea, by the revenue cutter Rush, are [1889. reported. A bitter feeling prevails at Ottawa on the subject. The United States and British Governments are said to be in negotiation. with a view to an early settlement of the difficulty.

### MINUTES OF MEETINGS OF THE MUNICIPAL COMMISSIONERS.

MEETING HELD ON THE 23RD AUGUST 1889. Comrie Esq.
Absent:—C. W. Barnett, Esq.

1. The minutes of the last ordinary meet-

closed yesterday, and Parliament will be offi- undertake to light two five-brauch lamps against the disappointed musicians.

cially prorogued to morrow. Large numbers which they are desirous of erecting opposite

has been transacted in the House of Lords have been successfully carried. Mr. Balfour bility of planting trees along Weld Quay, it is during the week. In the House of Commons has created some sensation by pledging resolved that trees be planted along the quay ment. All debts due to the company the Tithe Rent Bill has been withdrawn. himself to what is practically the principle 100 feet apart, care being taken not to plant are payable to Mr. Hornby.

lost by 82 to 112. The Irish Light Railways Sir G. Baden-Powell, gave some interesting it is resolved that no attaps be allowed in that 18) almost continuous for five hours, Bill has passed its third reading. The contract | statistics regarding the quantity of mail matter | portion of the Town marked yellow on the with the Canadian Pacific Railway Company despatched to the Far East by the present three plan, and that along those roads marked red. no attaps be allowed within 50 feet of the road GENERAL.—During the past week the strike without special permission from the Com- The storm water was more than the

would remain a British Colony, and would not conferences have taken place with representa- paper in which it is suggested that the corner tives of the men and of the Dock Companies in Larut Road opposite the Hutton Lane

London and India Docks' Joint Committee | The Commissioners sanction the expenditure state that all demands of the strikers might of \$50 for the rebuilding of the wall, provided

The men, however, remain firm in their inten- | 9. The Commissioners sanction the expention not to modify their original demands. In diture of \$ 105.35 being the costs in a case

is almost paralysed. The P. and O. steamers | 10. In accordance with notice given, Mr. expected to arrive here shortly to hold for the time being have returned to Southamp- Comrie moves that it is expedient in the ton, where several of them have been unloaded. (interest of public health that regulations be An interview on the subject with Mr. T. framed by the Commissioners with a view to

Present:—The Hon. C. W. S. Kynnersley. (President), Capt. Cameron, R. E., R. A. P. Hogan, Esq., and C. W. Barnett, Esq. beent :- F. M. McLarry, Esq., and D. Comrie.

1. The Commissioners pass, subject to the approval of the Governor required under section CXVII of Act 14 of 1856, the following revised by-law:- "Every person causing a corpse to be buried in any Burial Ground. " shall give to the owner trustee or person in charge of such Burial Ground the particulars required according to section CXI of Act 14

2. Certain by-laws prepared under section 86 of Ordinance IX of 1887 relating to "Traffic in the Streets" and "the regulation of marcets" are considered and passed.

Read and confirmed the 20th day of Sept.

SPECIAL MEETING HELD ON THE 18TH SEP. 1889.

(President). Capt. Cameron, R. E., F. M. McLarty, Esq., C. W. Barnett, Esq., and D. Comrie. Esq

Some by-laws prepared under section 86 of measures for the improvement of the navy the Municipal Ordinance 1887 are considered whom I always hated, has made me form a in Netherlands India. The subject of the and passed, and the consideration of the national defences is also to the front. Mr. S. remaining by-laws is adjourned till Friday has become a burden to me. I doubt not I B. Zeveryn, Director of the Netherlands the 13th September, on which day a special

> The Commissioners adjourned till Friday Read and confirmed the 20th day of Sept.,

Stories about the Shah are still filtering through. Until he went to Antwerp, his Majesty had never heard a barrel-organ. ped under the royal windows, and began innocence. to drone out dismally an air from the "Traviota" The Shah came to the window

### SINGAPORE NEWS.

(Straits Times.)

The banks have closed their purses both to the Chinese firms and to the Chitties. The latter are understood to have remonstrated in a body some fifty strong—lubulih.

Messrs. Drew and Napier, solicitors for the official liquidator of the Rawang Mining Co., give notice of his appoint-

 $(Free\ Press.)$ 

The heavy rain of this morning, (Sept. swept clear all the debris from the drains and will leave them as clean as may be. drains could carry off in the lower parts the Central Police Station. At Tanjong deep enough to stop the trams, while the Esplanade was a perfect swamp, and in the exposed roads the granite was well nigh denuded of its "packing."

### MALACCA NEWS.

(Weekly Chronicle, 14TH INST.)

Sir Charles Warren, Mr. Justice Goldney, and the Hon. Mr. Adamson are an enquiry into the condition of the Police Force in our Settlement.

Ban Seng, the Chinese Interpreter Superintendent of Police, has been prosecuted on a charge of embezzlement. The case will be heard some time next

week, we believe. The Resident of Selangor and two Chinese towkays went to Singapore this week to make offers for carrying on the

There is a rumour current that another chief-clerkship of the Post Office. We are sorry to hear that Mr. d'Oliveiro, who seems to be a smart man at his work, is likely soon to leave us. These frequent changes can only do harm to the department, and we hope the rumour s an idle one, as so many rumours in Malacca usually are.

#### FAMOUS CONVICTION ON CIR-CUMSTANTLAL EVIDENCE.

Here (says the London Ven York Herald) is a series of celebrated convictions, based upon circumstantial evidence, in each of which the gnilt of the prisoner seemed clear as day, and yet all of the convicted persons suffered wrongfully. In the year 1721 there resided in Edinburgh a certain William Shaw, whose daughter, Catherine, had conceived a passion for a person to whom the father strongly objected, and, more, he wished her to wed the proverbial "another." Frequent quarrels were the result, and, as a sequence, the father locked his daughter in her room. The neighbours frequently heard violent language on the part of both father and daughter; and when, at last, one day the words "ernelty" and "death" were shouted and groans afterwards heard, they determined to break open the door. This was done, and Catherine Shaw was found weltering in blood. As the persons entered she was heard faintly to exclaim, Cruel father, thou art the cause of my death!" saying which he expired. William Shaw entered at this moment. Horror-stricken at his daughter's fate, he stood speechless, and his emotion was taken for guilt. Moreover, the sleeve of his shirt was stained with blood. He was tried, sentenced, and executed at Leith Walk in November 1721. In August 1722 a man who had taken possession of the rooms occupied by Shaw found the following letter :- " Barbarous father, your cruelty in having put it out of my power ever to join my fute to that of the only man I could love, and shall find mercy in another world. for sure no benevolent being could require that I should any longer live in torment like this. My death I lay to your charge. When you read this consider yourself as the inhuman wretch that plunged the murderous knife into the bosom of the unhappy Catherine Shaw." The handwriting of this letter was recognised, and, as some sort of poor compensation, the body of Shaw was taken from the gibbet and decently interred, whilst a pair of colours It so happened that an organ-grinder stop- were waved over his grave in token of his

A revolting case of murder for "witchand listened with delight. The entire craft" comes from the New Hebrides, repertoire of the musical mill was gone While the Government agent and the (President), Captain Cameron, R. E., R. A. sign of satisfaction, a gold piece of 100fr. pulling along the beach off the island of dropped at the feet of the organ-grinder. Santo on May 26, they saw the body of a He immediately ran off to relate his good native tied hand and foot to a tree. They fortune to his companions in the trade- found upon examination that he had been The Court.—The Queen has at length paid ing and of the special meeting are read and goodness knows there are enough of them shot, and afterwards apparently backed and at Antwerp! The next day they all mutilated by the whole tribe to which he struggled for the supremacy, and the the island, and this particular native, "Brabanconne" tried in vain to accord having been unfortunately for himself a letter from the trustees of the Chinese temple this time no more gold! The servants at popularly attributed to his machinations, PARLIAMENT.—The business of the Session in Pitt Street, asking if the Commissioners will the palace had to make a regular sortic and it was therefore thought advisable to effect his removal.

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A large shipment of Steel Trunks including the NEW CABIN TRUNK Sheeting in all widths, Linen Table Cloths and Napkins, Tapestry, Velveteen, Tapestry bordered, and the New Chenielle embroidered Table Cover Cretonnes, reversible and single.

The new embroidered Nuns Cloth Robes, Black Cashmere Nuns Cloth, and Grenadines for evening wear. TADIES AND CHILDREN'S HOSIERY AND SHOES.

Ribbons in all widths and colors, Ladies' travelling caps. Infants' Embroidered Muslin Frocks, Jufants' Millinery, Baby's Bibbs.

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# Apollinaris

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HAS RECEIVED THE HIGHEST AWARD. THE ONLY GOLD MEDAL FOR TABLE WATERS,

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(Ілмитер.)

### Notice to Correspondents.

All literary matter for this paper should

be sent to THE EDITOR. All advertisements and business communications should be addressed to THE

Manager. Post Office Orders and Cheques should be made payable to THE PROPRIETOR, Pinang

Gazette

Penang, 23rd September, 1889.

EXCHANGE.

	- 11
RATES OLOSE AS FOLLOWS :-	И
London Demand Bank 3/03 dollar	
Do. 4 months' sight Bank 3/15	Ц
Do. 6 ,, , Credits $3/2\frac{1}{8}$ Documentary $3/2\frac{1}{4}$	
Do. 6 Documentary $3/2\frac{1}{4}$	
Calcutta, Demand Bank Rs. 225½ "	
Dc. 30 days sight Private ,, 230 ,,	
Bunbay, Demand Bank, 2251	
Fo. 30 days sight Private ,, 230 ,,	
Madras, Demand Bank , $224\frac{1}{2}$	
Do, 30 days' sight Private ,, 230 ,.	
Rangoon, Demand Bank , 2211 ,	
Do. 30 days sight Private ,, 230 ,,	
Moulmein, Demand Bank 224	
Hongkong, ,, ,, ,, do dis.	
Do. 10 days sight Private 2 o/o	
Shanghai, Demand Bank 73	
Do. 10 days' sight Private 74\frac{1}{2}	
Batavia, 30 days sight Private 188	
Amsterdam, 6 month' sight 191	
Singapore, Domand Bank 40/0 prem	
Do. 30 days' sight Private 1\frac{1}{4} of o dis	
English Sovereigns \$ 6.65	
Carolus * 10 o/o prem. nom	1

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BRANCHES AND AGENCIES IN INDIA AND CHINA. CALCUTTA KURRACHEE Hongkong Вомват AGRA Bushire Madras LAHORE Bussorah RANGOON SHANGHAI SINGAPORE BOUSTEAD & Co., Agents, Penang

### REUTER'S TELEGRAMS.

London, 22nd September, 1889. The disputes between the dock companies and the strikers is now settled.

were drowned.

Lady Sandhurst and the Right Hon. James Stausfield, members of the Home Rule party in Ireland, have received the freedom of the city of Dublin.

#### Minang wazette.

Tuesday, 24th September, 1889.

#### HYDROPHOBIA. ---:():----

drophobia two fresh cases have occurred in Singapore, and the alarm in that island is becoming general. The newspapers have contained both articles and letters on the subject, and Major McCallum has given notice of a resolution at the Municipal board. What the nature or terms of it will be we do not know, but from the manner in which Major McCallum usually deals with a subject, we imagine the motion will contain proposals of a drastic nature. It seems to us that only the most comprehensive and drastic measures will be of any use. The time when half-and-half measures would have been sufficient has been allowed to pass; the disease has got a thorough hold on the place, and a strong remedy is required.

The Straits Times proposes a course which is but a modification of what we have already advocated in these columns. We advocated the extermination of all the dogs in the island. The Straits Times, while adopting the principle that Singapore must be cleared of dogs, suggests that all those who wish to keep their dogs should send them out of the island place where they would be kept under Government supervision, but at the expense of their owners, for six months, and that during that period no dog should be allowed to land in Singadog should be allowed to live in Singapore. This seems to us both a It gets over the objection that many ing, and left again in the evening. people have to the indiscriminate destruction of dogs, and gives owners who are really attached to, or saving them, and ultimately getting such steps are unnecessary; that the proper plan is to raise the tax on poor man's dog, which is kept for steamer. use, not for pleasure, would be des-

have occurred from the bites of pet dogs. Any law that is passed must be one that will not of necessity Magistrate and Senior District Officer at reach only the poor and exempt the Butterworth, Province Wellesley, is in rich. Besides, anything short of bad health. He has been granted three the total clearance of the island for a time will be at best uncertain in District Officer, Bukit Mertajam, is now its result. To kill all the pariahs doing Mr. Birch's work in addition to and the dogs of those who could not his own. pay a very high tax, and allow the others to live in Singapore, would London, 19th September, 1889. mean that the remaining dogs could A stringent Anglo-Italian anti-slave not be watched, or would not be under trade convention has been signed in direct professional supervision; in Singapore on the 19th instant. They London. Slavers are to be treated as whereas, if all the dogs for which a are the property of the Landak Prospirates. The Mediterranean alone is certain fee had been paid, were sent peeting Syndicate, registered in Singaexcepted from the operation of the to some place—one of the small pore as a limited liability company. islands near Singapore, for instance, could all be under professional four Chinese were handed over to the Private negotiations are proceeding eyes for a long period, there harbour authorities here. The captain relative to an offensive and defensive would be every chance of rabics alliance between Servia and Montenegro. being stamped out. The matter London, 22nd September, 1889. has reached proportions so alarm-H. M. Gunboat "Lily" has foundered ing, and is of so serious a nature, off Newfoundland. Seven of the crew that all the merely sentimental con-place. siderations, that come into the relations between a man and his dog, death from hydrophobia. A Kling should be ignored. The one sen- barber, who was bitten by a dog in the timent, and the only sentiment, that | Serangoon district about a month and a ought to be considered, is the safety half ago, died on the 14th instant from of the public, and that can only be the effects of the bite. Another man attained by a scheme on lines such who was bitten by the same dog, and at as that proposed by the Straits the same time as the barber, is now un-Times. The more drastic scheme time after the occurrence. which we advocated would be unnecessary if such a scheme as that We learn that on the 28th of last put forth by our Singapore contem- month, a human skeleton was found in Since we last wrote about hy- porary were thoroughly and effici- the jungle about three miles from Prye ently carried out.

So far as Penang is concerned kept at least a fortnight under supervision and in quarantine before a arantine of six months. The disease often takes oven a longer dog; and six months is therefore not imprisonment. too long a period to quarantine dogs coming from a place so thoroughly impregnated with rabics and its introduction among us.

### DOMESTIC OCCURRENCES.

DEATH.

At Kualla Kangsa, of fever, on the 19th September, Charles T. Wight, of Kamuning Estate, Perak, late of Ceylon. Ceylon papers please copy.

BIRTH.

At Dunbar Hall, on the 22nd instant, Mrs. F. M. McLarty, a son.

### LOCAL AND GENERAL.

Negapatam on the 25th ult. was deliver- were discharged. Those who were conpore-in fact that for six months no ed in London on Friday, the 20th inst. victed have since engaged counsel to

The outward bound P. & O. mail if he would not advise an appeal. steamer Peshawur, with the mails from reasonable and practicable proposal. Europe, arrived here on Sunday morn-

bers of the Police Commission, returned jetty. She was entering the road-

safety of the public. There are published in another column from Mr. other small craft ensued, all making certain owners of pet dogs, prin- C. F. deMornay, the Manager of Mala- way for her in great haste. Nearer and cipally Europeans, who say that koff Estate, on the subject of coconut nearer she came, and a catastrophe seemed beetles. It will well repay perusal.

dogs, and destroy all dogs whose trict Officer at Balik Pulau, is now to the inexpressible relief of all the owners did not pay that tax. Such a acting in Singapore for Mr. H. A. passengers on board, as well as the proposal should not be entertained. O'Brien, Postmaster-General, who went people on shore. It would simply mean this, that the home on sick leave by the last mail

only a pet, or at best a ratter, would tary of the Straits Insurance Co., is undertaker. It is evident from this that,

be allowed to live; and this notwith- going to London to take charge of the standing the fact, that some, at least, company's London office. Mr. Macof the deaths from hydrophobia, bean was formerly Acting Assistant Postmaster-General here.

> We regret to hear that M. J. K. Birch, months' vacation leave, and will shortly proceed to England. Mr. A. H. Capper,

According to the Singapore Free Press, the provisional three years' leases for four concessions in Landak, Western Borneo, were received

On the arrival of the homeward bound -where they were all together, and P. & O. steamer Robilla on Thursday night, reports having seen the men on his way from Singapore clinging to the wreck of a tongkong, and picked them up. They stated that they belong to Malacca, and have since been despatched to that

der treatment. The dog was killed some

Estate, Province Wellesley. Notwithstanding the enquiries since made by the police, all that can be ascertained we hope our authorities will take about it is that it is the remains of a every precaution to prevent the male Mongolian. What caused his introduction of hydrophobia here. death the medical authorities cannot Every dog from Europe should be say : neither has any clue to his identity been discovered.

At the Assizes on Friday, before His being allowed to land; and no dog Honor Mr. Justice Goldney, Khoo from Singapore or the East should Cheang Chong, late cashier of Messrs. be allowed to land on any pretence Boustead & Co., was charged with, 1st, whatever, without undergoing a using as genuine a forged document; 2nd, forgery; 3rd, dishonest misappropriation; and 4th, criminal breach of trust. On his arraignment the prisoner time to appear after it has been pleaded guilty to all the counts, and was contracted by the bite of another sentenced to fifteen months' rigorous

The Ceylon Observer says regarding the Coconut Beetle Bill:—"The object sought is very desirable, but we doubt hydrophobia as Singapore. We have if it can be attained by the heroic legisnot suffered from this terrible lation proposed, and the sanction of disease yet; and it behaves us to which by the home authorities we doubt. take every precaution to prevent The law is open to the objections that it might be used as a means of oppression, and that, if strictly enforced, the keeping of manure heaps for the fertilization of lands will become impossible."

With reference to the case of the Chinese who obstructed certain police officers and chintengs when they were going to execute an excise warrant at Bukit Chroh Tohkoon, in Province Wellesey, on the 9th instant, we are informed that eight men were arrested and brought before Mr. Capper on Thursday last, when one was sentenced to three months' rigorous imprisonment with a fine of \$50, and two others to one The mail which was despatched via | month's imprisonment each. The rest review the evidence in the case, to see

The s. s. Thai Peng which arrived from Port Weld on Friday afternoon, very nearly ran against the Sir Charles Warren, one of the mem-bank between the Fort and the old value their dogs, the opportunity of to Singapore by the P. & O. mail stead at full speed, and owing, it is besteamer Peshawur on Sunday. lieved, to her having taken too sharp a turn, made straight towards the bank. them back, without risking the We would call attention to a letter Confusion among the sampans and inevitable. Just, however, about a few yards from the shore, she swung round, Mr. A. W. O'Sullivan, formerly Dis- and passed within a few feet of the jetty,

We note that among the numerous applications for the post of assistant The Singapore Free Press says that overseer in the Scavengers' department troyed, while the rich man's, which is Mr. William Macbean, assistant secre- is one from Mr. Bartlett, our local

answer,

once.

#### SECRET SOCIETIES IN JAVA.

pore and Rhio.

### MURDERESS.

A most determined suicide was committed at about noon on Saturday in the female ward of the Criminal Prison. In the absence of the matron upstairs for a little while, the Malay woman who was to be tried at the present assizes for the murder of a boy at Bagan Ajam, in Province Wellesley, obtained access to the kitchen, where she took a knife, cut her throat nearly from car to car, and died before any alarm could be raised. An inquest was held by Mr. Neubronner on the same day, when a verdict of suicide was returned. The matron has since been suspended from duty.

### LAWN TENNIS TOURNAMENT.

PENANG CRICKET CLUB. The following are the results of the third ties played off since Wednesday

THURSDAY, 19TH SEPTEMBER.

SINGLE HANDICAP. F. O. Hallifax beat R. Yeats R. C. Petherbridge E. L. Brockman F. E. Jago W. Egerton G. E. Cole E. H. Barraut A. G. Wright A. L. M. Scot FRIDAY, 20TH SEPTEMBER. •

Double Handicap. R. C. Petherbridge beat (H. Scott A. Durler)

#### "THE CHINESE CLUB" GAM- $BLING\ CASE$ .

prisoners were severally charged with then confirmed. gambling in a common gaming-house, Mr. Barnett then asked, according to sum of money in his hands; Cheng | be ballotted.

place and our hitherto complete immu- were arrested in the hall; and the other temple in Pitt Street. The trustees neglect of certain duties for which other nity from hydrophobia, Mr. Bartlett defendants in different parts of the proposed to erect one on the public people are proporly responsible. These finds his peculiar trade anything but house. The police, however, differed road and one on the courtyard oppolicities are the destruction, removal, or paying, and is anxious to obtain greatly in their recollection of facts, site the temple. After some discussion rendering innocuous of rubbish, trade more steady employment. As a and the contradictory statements made it was resolved that permission be given refuse, &c., produced in their business matter of expediency he should have by each as he was examined with respect to erect the lamps, the one on the road or on their premises. As regards the support of some kind or other from to what he observed was the occasion of to be lighted by the Municipality on draft ordinance published in the Govthe community, in order that we may much laughter and amusement. Two condition that it be given up to them. | erument Guzetle, I am of opinion that, always have one of his profession in of them said they saw a number of men | A letter from the superintendent of the in its present form, it would not our midst; but whether the Municipal running out of the room at sight of the fire brigade suggesting a bonus to police have much effect in checking the Commissioners will care to have under police, whereas inspector Drum, who officers and men for working the fire ravages of the beetles, and that a them a man who will be ready at a rushed upstairs first, saw nothing engines was read. Mr. McLarty said that more intimate knowledge of their habits moment's notice to take their measure, of the kind. Some account books as the superintendent proposed a scheme, is required before a suitable measure is a question we are not prepared to which were found in an iron safe it required some consideration before can be framed. The drastic remedy of A European named Lawton appear- entries were taken to shew that they culated and brought up at another the owners without any appreciable ed before Captain Bradbery, Harbour related to gambling, but they failed meeting. Master, on Saturday morning, charged to support this theory. The case for the President read a letter from the your space, I propose making some by Captain Madge of the telegraph prosecution having closed, Mr. Van- Resident Councillor, forwarding another observations on the habits of these insteamer Recorder with misconduct on Someren addressed the bench. He said letter from the Colonial Surgeon, in which sects, which, I hope, will prove useful board the steamer on her way to this the case against the defendants was very the attention of the Board was drawn in suggesting means for reducing their port from Singapore. It appears that weak and the police knew it. After to the want of a mortnary in a central numbers. Lawton was shipped as third mate in dwelling at some length on the various position in town, and suggesting the The Rhinoceros beetle (described as Singapore on the 19th instant, and on contradictions in the evidence given on erection of one near the new Government Oryctes Rhinoceros in the schedule to the same day the vessel left for Penang. behalf of the prosecution, he observed buildings at Pitt Street. The Secretary the proposed ordinance) is, I think, too About eight o'clock that night, after the that there would have been no case at all was directed to refer the matter to the well-known to need description here. first watch was set, he raised a false but for the gaming appliances found in health officer for his opinion. alarm of fire, and afterwards disturbed the room, the presence of which he ex- An application from the Clerk of tructive of these pests. Only the perfect the ship's company by singing. In the plained. The checkee cards, he said, might Works for extra pony allowance or beetle of this species attacks living opinion of Captain Madge the man was be found anywhere, just as cards might mileage for any distance travelled coconut trees, the larvae or grubs living not in his right senses, and liquor had be found in every house without having beyond the radius of seven miles was only in decaying vegetable matter. made him much worse, for a bottle of any connection with gambling. In the Lye considered. The application was refused, mention below some of the materials whisky was found in his cabin. After Kum case similar cards were found, but but an increase of \$3 to his present, that seem to be the most attractive beds hearing the captain and the chief officer, the game that was played was dominoes. pony allowance, making it \$ 18 a month, for breeding these beetles:-Lawton was ordered to be dismissed at The two poles were without the dice, and was granted. The Straits Times says:—Chinese secret kind. Nor was it shown that poh must was the subject of a remark by H. E. societies have taken root in Java. The be played with cheekee cards The money the Governor on his last visit to Penang. Java Bode of the 14th instant admits as belonged to Khoo Sim Huan. The Complaint had also been made by the to breed these insects, but of these I much. Several of these organisations evidence as to the noise heard of apothecary in charge of the bad smell cannot speak from personal knowledge. have been started at Sourabaya. They people rushing could not, in the present emanating from the compounds in the It is remarkable that the stems of the are mutually hostile, and strive to do case, raise the presumption that defend- neighbourhood. The President said the tapioca plant and the ampas (refuse each other as much harm as possible. ants were gambling at the time, as the road does not belong to the Municipality from the roots) when rotten never breed The local Chinese headmen gloze over entry was not made by a justice of the but to the Government, but after a these beetles. Whole coconut husks the matter, but rumour has it that these peace; such presumption would be raised discussion it was resolved to have when heaped until quite decayed also societies are branches of those at Singa- under the old, not under the new, ordi- it looked after by the scavenging de- prove unattractive. It is possible that nance. The defence was briefly this. partment in future. The defendants were not gambling as \[ \] \( \Lambda \) paper about a house crected in mine what it is that makes these sub-SUICIDE OF THE BAGAN AJAM alleged. With the exception of Khoo Transfer Road contrary to plan was next stances unpalatable to the insects, and Sim Huan, Khoo Boo Koi and the considered. The engineer reported that thus discover means of preventing their woman, the rest are servants of the club | the notice on the owner to have it pulled | breeding in other refuse. at the time the police went, was about to request being complied with, and asked accumulation of moist and decaying pay his mistress in the room in which the for instructions. It was resolved that vegetable matter where the larva, a money was found. Khoo Boo Koi is the President should visit the place and whitish grub, is duly hatched, and lives brother of Khoo Boo Ann, and lives in see the house himself. Penang. Evidence was then called to postponed for the next meeting. prove the above, after which the defendauts were discharged.

### THE MUNICIPALITY

At the meeting of the Municipal Commissioners on Friday, the Hon. C. W. S. Kyunersley, (President), Captain Cameron, R.E., Mr. D. Comrie, Mr. R. A. P. Hogan, Mr. F. M. McLarty, and Mr. C. W. Barnett were present.

The minutes of the last three meetings having been read, Mr. Barnett said he did not agree with the resolution come to by the Board at the meeting on the 22nd Sept. - Per s.s. Maha Vajirunhis from 23rd ultimo, at which he was not present, for the construction of four ghants between Bridge Street and the sea, and asked the President to record his vote against the minute. He said his objection was to the way in which it was proposed to construct the ghauts, the burden of the cost of which would fall on the whole town, whereas, if the work were made to form part of the reclamation scheme, the cost would be borne by only that portion of the inhabitants who The case against the seven men, would derive benefit by the construction Soh Hoo, Cheng Guan, Khoo Boo of the gliants. He likewise objected to Koi; Ah Taw, Lee Sean, Ong Choi the undertaking of such a large scheme and Lim Kap, and the woman, Khoo without having proper estimates before Ut Im, who were arrested in "The them. Mr. Barnett was informed that Chinese Club" in Macalister Road, at one | the question of constructing the ghauts o'clock in the morning of the 12th had not been decided, and that the instant for alleged gaming, came on for resolution was only for the acquirement hearing before Mr. Kyshe, acting second of land for that purpose, in which case magistrate, on Thursday, and was con- Mr. Barnett said he was entirely with cluded on the following day. The the Commissioners. The minutes were

Guan (Khoo Sim Huan it ought The next subject was the erection of two through no fault or want of care on the usually stacked in the same manner. On

what with the general healthiness of the to be) and Khoo Ut Im, his mistress, five-branch lamps opposite the Chinese part of those engaged in it, but by the

in another room and seized, were they could decide the matter. It was cutting down all coconut trees attacked also produced, from which a few therefore resolved that the papers be cir- by beetles would cause serious loss to

without it the game cannot be played. A letter from the Colonial Secretary It is usual to play it on mats with certain was read calling attention to the filthy marks on them, and not one of those state of the lane leading to the civil disproduced bore marks of that particular pensary at Chowrusts, and stating that it

The former is a member of the club, and down had already expired without the The beetle lays its eggs in some

Province Wellesley. Though not a me a- The report suggesting improvements inches long and as thick as a man's ber, he was in the habit of sleeping be to be town water supply, and that on middle finger. It then becomes a chaynight at the club whover he came to waste of water in private houses, were salis of a light-brown colour, the fore-

#### PASSENGER LIST. --:0:--

### ARRIVALS.

Robless and Miss Lucy de Oliveiro.

Per s. s. Lady Weld from Taiping, Mr. Ashton and Mr. Mackay.

21st Sept.—Per s.s. Teutonia from Klang, H. Mahomed Ally and H. Abdullah. Per s. s. Lady Weld from Taiping, Mr. Fraser and Mr. Cheng Hooi.

Singapore, Messrs. J. N. Knight and Joo Beng.

### DEPARTURES.

19th Sept.-Pers s. Lady Weld for Tai- situated near a village, it is impossible

mond, Messis. J. A. Solomon, E. Dunlop, F. H. Hornby, R. H. Woodford, Mr. and Mrs. Kufahl, Mr. O. Richelmann, and Hajee Halimah; and for Hongkong, Mr. Heng Ah Hak.

#### CORRESPONDENCE.--:0:---COCONUT BEETLES.

(To the Editor of the "Pinang Gazette.")

benefit If not trespassing too far on

It is by far the most numerous and des-

1. Paddy straw. 2. Paddy husk.

3. Coir refuse, rubbish from dustbins, bark, tan, saw dust, &c.

4. Cattle manure and stable litter. 5. Dead trunks of cocount trees. Certain other kinds of refuse are said by analysis Government might deter-

until it attains its full size, about 23 part of which resembles the perfect beetle, except that the head, horn, wings, and legs are enclosed in a kind of casing. It still inhabits the refuse heap until the time for it to take its flight as 20th Sept.—Per s.s. That Peng from Port a perfect beetle. The beetle leaves the Weld, Mrs. M. Doral, Miss Josephine place it was bred in always at night, and flying in the direction of the prevailing Per s.s. Kongsee from Olehleh, Mr. R. night wind reaches a coconuttree, alights on it, and proceeds to bore into a leaf near the butt; often boring through young unfolded leaves, which gives them the cut, ragged appearance so often seen after they unfold. The beetle sometimes passes the day in the hole it has bored, and, being unable to fly by daylight, is found by the coconut trees climbers, who extract it by means of a barbed Per s. s. Peshawur from London, Mrs. needle. This plan answers well enough Smith: from Brindisi, Mr. J. A. in keeping down the number of beetles Rigerinck; from Colombo, Mr. Hardy on a plantation, if there are no large accumulations of rubbish or trade refuse &c., in the neighbourhood; but when this is the case, or the plantation is ping. Messrs. Scott, Keyt, Plumbe and to cope with the insects in this manner, and the trees rapidly sicken and die 22nd Sept.—Per s.s. Peshawur for Singa- from repeated attacks. The only means pore, Major General Sir Charles I have found practicable, when these Warren, G.C.M.G., K.C.B., Major Ham- beetles become too numerous to be kept down by extracting them from the trees, is to search for and destroy the grubs in their breeding places, or to render these unsuitable for hatching and feed-

ing them. Paddy straw is a favorite breeding place when stocked in the usual manner, the grubs being found only in the layers nearest the ground, which are always damp and more or less decayed. I Sir,-The proposed "Ordinance for the successfully prevented the grubs being and pleaded not guilty. They were notice previously given, if the Northam protection of Coconut trees from the bred in this by having the straw stocked defended by Messrs. Van Someren Road drainage was being carried out in ravages of certain Beetles" may seem on a platform of split bamboos, (nibongs and Wreyford, chief inspector Drum terms of contract as regards price. The to persons unacquainted with the causes or saplings would answer equally well) prosecuting. The evidence for the Municipal Engineer was sent for, and it of the great increase in the number of sufficiently high to keep the ground prosecution went to show that at was ascertained from him that a modifica- these insects quite unnecessary; but underneath free from litter, and to allow the time the police rushed upstairs, tion in the plan made by the Works Com- when they know how impossible it is for for ventilation. Not a single beetle or there was some noise heard as of persons mittee had entailed the outlay of a the owners of coconut plantations to grub ever bred in straw stacked in this running about. In one of the rooms larger sum than that authorized for the prevent their property being destroyed manner, and it is a cheap and effectual were found a lamp, sixteen stools, mats, work. This was considered satisfactory. by one of these beetles, they will, I plan of dealing with it. Indian cattle two polis, some cheekee cards, and money | The applications for the appointment | think, acknowledge that the Government | are chiefly fed on paddy straw, and their in silver and coppers amounting to \$86, of assistant overseer in the scavengers' is acting wisely and justly in coming to introduction here has caused the natives all of which, it was argued, raised the department were laid before the Board. their assistance. Though it may not be to purchase or collect it for that purpose. presumption of gambling under the There were twenty-three in all, and it advisable for Government to protect or It is usually stocked near the cattle-Ordinance. Soh Hoo was arrested was resolved that they should be circu- foster any particular branch of industry, sheds, and provides numerous large beds at the door of the room with a lated, after which the candidates are to it is only fair that it should step in to for breeding the beetles. Paddy straw protect one threatened with destruction, is used largely at potteries and is

Paddy husk is another favorite breed- general direction of the night breeze. ing place, and should be burnt as produced, unless it is required for any purpose, when it should be stored in raised magazines. Near rice pounding establish- September 18th, 1889. ments in Province Wellesley the coconut trees die in large numbers from the attacks of beetles — It is sometimes used at potteries. Coirrefuse, rubbish from dustbins, tan, bark, &c., are mostly difficult, if not impossible, to burn, and should either be thinly spread over adjacent land, or, as I would suggest, emulsions of Jeyes' purifier, carbolic acid, kerosine, Paris green, or some other insecticide might be sprinkled over the heaps with the idea of preventing the grubs from breeding in them. Cattle manure has to be heaped for some time in order to render it suitable for manure, and is too valuable to destroy by burning in agricultural districts. The grubs are usually found a few inches from the surface of the heaps, so they are easily discovered and destroyed but I think it might also be treated in the way suggested for dealing with coir refuse, &c. Large numbers of beetles are bred in the stable litter at the homes of Europeans and natives in Penang, which must greatly increase their numbers. The beetles have no particular breeding season, but breed all the year round.

Red Beetle (?) named Rhynchophorus Fenugineous in the draft ordinance, is, I think, probably a variety of Calandra Pulmarum. I have never found any of these beetles of a uniform red or orange colour as mentioned in Dr. Simon's report on excount beetles. This beetle itself does no harm to coconnut trees. It is the larva or grub that damages them. It has been generally stated that the beetle searches for wounds in the coco nut tree, made by the coconut climbers with their knives, and deposits its eggs in them, but I think it more probable that it acts in a similar manner to other beetles of the same family, as, for instance, the corn and rice weevils, and itself punctures the holes where it deposits its eggs. It has been said that their rostrum is not sufficiently strong for it to do this, but in my opinion it quito strong enough to punch a hole in the soft parts of the crown of the tree, which is probably much softer than a grain of corn or rice. The grabs are hatched in the pithy material, usually called the cabbage, through which the leaves sprout. They bore through this, and the soft part of the tree, in all directions, without, however, making any external wound. If not discovered they eventually kill the tree by eating through the base of the leaf spike, probably through their favorite food, the cabbage. having become entirely consumed. When a grab living in a coconut tree arrives at the time it has to change into the pupa or chrysalis state, it bores through the wood of the stem to the outside, near the top of the tree, and on the thickness of the wood manufactures a most wonderfully constructed cocoon from the fibres of the wood. In this it lies torpid until the time for it to emerge as a perfect beetle. This beetle, unlike the Rhinoceros beetle, flies freely by daylight. They are not very numerous here, and I have never known much damage to be done by them. account of their habits little can be done to decrease their number, but for the same reason they are not likely to increase to any great extent.

It is not easy to know when a tree is attacked by these insects, as it shows no very clear sign of their ravages until the leaf spike falls, when the tree invariably dies. If the heads of the trees are frequently inspected by skilful beetle-searchers, many trees may be saved by cutting out the grubs, their presence being known by the searcher either finding a cocoon in the tree, or, more generally, by noticing slight wounds on the smooth skin (if I may call it so) of the leaf spike, which are unintentionally made by the grubs in cating the soft pithy mass through which it pushes its way. Several grubs and beetles are sometimes cut out of one tree.

the coconut plantation belonging to was the knowledge of the Metonic cycle of this estate, was being rapidly destroyed nineteen years, which the Greeks adopted in coolie, used to destroy from 300 to 1000 of its antiquity, however, are not by any in a day. By destroying them and pre- means convincing, and though they assert

the paddy straw, the Malays often sufficient to keep the trees free of them. fell into disuse after the time of Meneius, busy despoiling her of her territory." If a neglect to burn it off on their fields, as In my case I found it necessary only used to be customary, and the heaps left to search the refuse heaps to the east- of (allipus whose invention (named after rotting there may also breed beetles, ward of the plantation, that being the himself) to correct the error of the Metonic Yours faithfully,

C. F. DEMORNAY,

#### THE SUPPRESSION OF HYDRO. PHOBIA.

the Straits Times:—

ocen stirring up the Council here to make defensive preparations against the that in a few days a law will be promul-

sent across here. Of course, as you know, proposed legislation.

#### THE BANKS AND THE CHITTIES.

the Asiatic traders of Singapore are will be a crash of the most serious kind.

It is generally known that nearly all know, berrow from the Banks on joint been found by the banks to be both profitable and safe, but within the last few days advances to Chitties have been enirely rolling, and the Chittier nor

in effect, "There are our assets; we believe we can pay everybody, but we can't do so at once, and we can't go on at all.

The Chitties allege that it is not a ase of stopping the credit of doubtful matter can be said to possess a public santhenums blossom. In the tenth mouth, avoided without loss, is a public injury, and is against the understanding on which banking business is done.

It is understood that the bank managers are again to meet to consider the matter, and it is to be hoped that they may see their way to ease a situtaion which seems likely to inflict a severe blow on local trade.

The Chitty business has hitherto been are interested in preventing any general collapse which would incidentally in ure nearly all their customers, and it would be in accord with European custom if they were all to take a share in mitigating the present pressure.

### THE CHINESE CALENDAR.

Amongst the many things which the early I may mention that, some years ago, Arab traders probably introduced into China

account of there being now a market for again, and I found one beetle-searcher Their explanation of this is that the system not far distant when her enemies will be system of chronology was based upon an not be long delayed, and the intolerable Malakoff Estate, Province Wellesley, return to the same day of the month, no under pressure of self-defence—or what the but with the growing importance of the foreign trade of China, the inconvenience and absordity of her present chronological style, with its perplexing intercalary months, are A correspondent in Johore writes to often felt, and occasionally give rise to serious it compels the conservative rulers of China I understand that Mr. Bentley has in matters between Chinese and foreigners are gress in defiance alike of tradition, prethereby greatly increased. It would undoubtedly be a step in the right direction, now that China has adopted telegraphs, steamboats iuroad of dogs that may be expected with mining machinery and railways to some when the legislation recommended in the extent, which in the near future promise to be Straits Times takes effect, and I expect on a much larger scale, that she should also adopt the Gregorian calendar which is now in course of a few weeks, says a home paper, almost universal use. It is not a matter which that Prince Albert Victor has been created is attended with the difficulties of such a Duke of Clarence. It is intended to be enacted that all scheme as romanising her language, and could parial or ownerless dogs in Johore shall be easily managed by the Imperial Astronombe killed, and that all dogs, without exception, on Pulan Lyang shall be so new systems could be easily arranged side by mation worth noting. He has actually in treated—that, I may explain, is the is- side for some years, till the people would be- hand an invention which he believes will land where poor Parrinton died of come accustomed to the reformed style. At enable people talking over short distances hydrophobia. Further, the importation present the system is to give seven by wire to see one another. Satisfactory of dogs into Johore is to be strictly for intercalary months in every period of nin-results have already been obtained at disbidden; and even now Kranjie ferry is between the tropical solar year of 365 being watched and dogs will be turned 233-940 days, and the time of twelve revoluback. After the law passes, dogs im- tiogs of the moon which is 354 592-940 days, or ported may be killed and the owners a difference of 10 827-94 days in a year. Indeed the ordinary calendars in use amongst state, a child born out of lawful wedlock, if the Chinese at the present day are full of recognized by the father as his child, is to The reason of hurrying on the law is peoplexities, absurdities, and misleading cal- be deemed legitimate from birth for the hat Mr. Bentley urges that in anticipa- cultions, leaving out of considerationaltotion of Singapore legislation dogs will be gether the more purely astrological portion, which deals solely with lucky and unlucky days, and unlucky hours of each particular the Malays don't like dogs in any case, day, and the names of unfavourable winds, etc. so they are not averse to anticipate your | We noticed recently that some Chinese firms here who print almanaes, give the foreign such as no fisherman has ever seen before, calendar on one side and the Chinese on the has just been stranded on Bancals rocks, other, and every day the natives of the open situated to the west of the island of St. ports, at least, are recognizing more clearly Honorat, near Cannes. A man was fishing the disadvantage of their present system of on the rocks when he saw at a distance of At this moment nearly the whole of posed to be compiled according to the Imperial Almanac, the She Heen Shoo, which in extraordinary form floundering in the shaltuen is largely dependent upon the " Book of low water. This creature measures five and threatened with absolute stoppage of Rites" for its miscellaneous information. A a half metres long, and is five metres round credit, and unless the situation be modi-lifew specimens of this may be read with in-the thicker part of its body. It had a beak fied within the next day or two, there text as affording an example of the Chinese resembling that of a parrot, and two horns knowledge of the seasons and their queer on its head; its eyes were at a distance of mingling of the practical with the supersti- one metre from the extremity of the beak. tiebs. In the first month, it says, the East he Chinese traders, however well-esta- wind breaks up and melts the frost and animals blished, habitually borrow large sums begin to leave their torpid state, grasses. from the Chitties, and these, as we all shrubs, and trees bud, and the otter sacrifices to rice great ancestor of otters the first fish Laban Damont, the young and beautiful Chitty security. Hitherto this trade has thunder and lightning, the pench puts forth stockbrokers in that city. Miss Damont third month sees the Wootung tree in !

a; mice are transformed into pigeons, og slights on the mulberry trees. rily have been pressing the Chinese, wad doves shake their wars, and the righbon sant life of a young, rich, and beautiful and the mole cricket cheers us with his merry a hall, and returned home in the capty chirps; while in the fifth month, the mantis hours of Thursday morning. Her maid begins to fly, and the butcher bird calls. This left her in her bed-room alive and well. If our customary financing facilities are the sixth month fire-flies are evolved from the topped." And there the matter stands. decomposing grasses, and the winds are warm all day. With the seventh month come cool winds, and the grain ripens under the evening life in a most unusual and determined manflews. In the eighth month, swallows seek the | ner, by strangling herself with the lace persons, but that advances to any com-south again, and wild geese fly overhead at string of her corset. Her relatives and bination are refused, and that proposi-hight, the worms close up their earth holes friends are at a loss to account for the tions to lodge ample securities (as title- with clay, and thunderstorms visit us no snicide. deeds and the like) are refused. It is more. In the ninth month, sparrows are transformed into oysters (!) insects become only from that point of view that the torpid the mosquito does not bite, and chryinterest, for, clearly, bankers must make pheasants tly to the sea, where they take the themselves secure against loss, while form of oysters, the rainbow is seen no more, and the frosts begin. Worms make holes and with a lavishness which destroys all their "pheasants call" (after being transformed into ovsters), and the falcon goes northward. Surely the Chinese calendar wants a Gregory or a Julian to take it in hand. Mercury.

### THE RUSSIAN BOGEY AND CHINESE RAILWAYS.

tion of the great Siberian railway by house, gives the names and market value Russia, to which Chang Chih-tung and of some five hundred orders of knighthood, very much in the hands of the Mercan- other officials have given voice, is also academical honours, memberships of varitile and of the New Oriental banks. The echoed by the Tientsin native paper. The ous learned societies, &c., among the orders Chartered Bank ceased some consider- Shih-pao thus refers to General Annenkoff's being that of the Lion and Sun, which was able time ago to have any material share great enterprise: -- "The Russians are now to be had for £500. in it, and the Hongkong Bank never constructing two railways reaching to the was heavily engaged in that class of very borders of China, one from the shores In an article on "Blindness and the business. All the banks, of course, of the Caspian Sea to Kansuh, and the Blind," in the current number of the other from the Urals to Hei-lung-chiang. Journal of the Franklin Institute, Dr. While China is dilly-dallying about the Webster Fox refers, among other things, building of railways, the Russian lines to the need for care being exercised with to transport her armies and military sup- eyes are more sensitive to light in childplies with increased facilities, and will be hood than in adult life, yet a mother or upon the borders of China ere she is aware. | nurse will often expose the eyes of an in-It behoves China to awake to an adequate fant to the glare of the sun for hours at a sense of her peril and prepare herself for time. Dr. Webster Fox holds that a serious the defence of her most important terri-tevil may spring from this, and he even tories. When railways are built connecting contends that "greater number of the important strategic points, China will be blind lose their sight from carelessness able to preserve her territory from internal during infancy." From the point of an their admiration of its use in rectifying the and external perils. With railways pro- oculist, he protests against the notion that by the ravages of the Rhinoceros beetle. calendar called the "Golden Number." The perly located, the outlying territories children should begin to study at a very Finding that increasing the number of Greeks adapted their calendar to Neton's will be brought into immediate connectearly age. He thinks that until they are beetle-searchers had no appreciable system, and had their intercalary months like tion with the interior provinces, and effect between seven and nine years old the eye effect, I commenced searching for the the Chinese; though the people of this country fual defence will become possible. Be- is not strong enough for school work. When grubs, and, at the beginning, with one to law discovered the secret of the sides, it is only by constructing railways they do begin to learn lessons, they should grubs, and, at the beginning, with one Golden Number long before. Their accounts that the peace of Asia can be pre- have good light during their study hours. served, and the encroaching tendencies of and should not be allowed to study much venting them from breeding in the that it was in use before the age of China's enemies can be checked. Should by artificial light before the age of ten. paddy straw, they decreased rapidly in generally adopted till many centuries after inherent weakness, and will take no steps be allowed in schoolrooms, much less be number, the plantation became healthy generally adopted till many centuries after inherent weakness, and will take no steps be allowed in schoolrooms, much less be number, the plantation became healthy the commencement of the Christian era, for the strengthening of herself, the time is read by insufficient light."

when they discovered its fallacy. But they sufficient degree of fright can only be got have no mention of any Chinese prototype up in the minds of the Celestial rulers, the introduction of the iron way into China will error cous theory of calculation. The Metonic amount of talk with which for the last two system of nineteen years, or 6,940 days, which years we have been regaled may resolve it takes for the lunations of the moon to itself into action. Certain it is that, save doult serves its purpose well enough, where wiseacres of Peking believe to be such the reformed calendar has not been adopted, necessity -- the railway would not have been tolerated on the sacred soil of the Central Kingdom for decades to come. The Muscovite bugbear will serve a good purpose if mistakes, while the difficulties of calculation to adopt the great pioneer of material projudice, and self-interest.

#### GLEANINGS.

No one need be surprised to hear in the

Mr. Edison has been interviewed in Paris, tances of 1000 feet.

The Supreme Court of California has just decided that under the code of that purpose of inheritence, even when not received into his family. This is a human view of the subject.

According to the Liberte, a sea monster,

New York has received a severe shock by the tragic and unaccountable suicide of Miss which he catches. In the second month come, daughter of Mr. Damont, one of the leading blossoms, the swallows arrive, and the has been passing the summer at Glenhaven, on takes the shape of the wood-pigeon, a quiet seaside resort, and up to the moment of her death was apparently in good health, and thoroughly enjoying the pleawho in many cases are obliged to retort, is first seen. In the fourth, the wheat ripens, how we On Wednesday week she went to is the time when the stag sheds his horns. In Next morning her corpse was found lying on the floor of the room. She had been dead for some hours, and had taken her

Much uneasiness is being caused to persons whom the Shah recently honoured with Persian dignities by ugly rumours that these decorations have been bestowed equally clearly the stoppage of cus- fountains move over the land in the eleventh value. It is even reported that minor tomary facilities, if such stoppage can be month, while in the twelfth we find that tradesmen are among the fortunate recipients of these orders, and some sensation was caused the other evening at a wellknown place of amusement by the appearance of the green ribbon on the bodice of a premiere danseuse. A great deal of scandal arose in Vienna a few years ago by the discovery that a Persian kept an agency there for the sale of orders of the Lion and The alarm left in China at the construct Sun, and a price-list, issued by an English

will be completed, and Russia will be able regard to the eyes of young children. The

Dear an Ridley.

Thunks for your wole of 24th I have dulayed anowaring it as benished first to read out the Communt Ordinance You ray the Apowers well grant for culting direct true is a much last it has been used up.

I new apour himsen francisco de fines er encour fils for consenzéras has decleurs er en appende le destrury. Ilse enforce réhime to find apour in familie.

The chause 6. The Governor may be so sender confessions to persons in nacely circumstances and companiention shall not exceed \$5 for each tree and that the compensation given in one open to any one forces whale not assessed to more than \$100.

derming to spin Aller again, spin trans for are allowed ones oriented to me coolin for the whole island

It is abount to though you can swork with reach a staff.

Vacus has this everille to Cut down 90 biens sever of these being, eaten by the said himble how though your one evolve do that and come corner the tope to into the said. It is animouslikely, every on harishing that saidfire through when facilities exafted to the source seased with look at them: to 376 on the Gangleony Roads ha will find evenue trees which about the said down and there are several than a star there a the said down and there is there was the said that when meet the sea heath has attacked a their seathing cour sour it, they by to clear to clear it as they overed for a black heath water actor free when the true dies the backs have the exact the star they are the when the true the true dies the backs has already gone characters to the when the true the true the true the true the true the said the said the said the true true the tr

I would still ask you to put W! Comes proposal before the Governor as there is not the remallest doubt but that if stringent measures are not taken another mount that it will be begind remedy ano in a few years all the plantations will be practically enter up.

Betch trule. As creaments will not grow when I have and derived a proposed trying betelents is there amy particular that fine fine would recommend or is there amy other finit that for think would be down at Transportations to would be true and transportations.

Sourceille. One was the Garlewike document appear to her burning or consuming his sourdest it remed to was to be accumulating.

and the state of t

Romman.

Copece heette

BEAUMONT

KLANG,

29th December 1898

SELANGOR

H. h. Riddley Eng

Director Botanical Garden

Ingapou

Dear fin

I am sending you from S.S. Sapph a specimen of great found in my new Coffee Cleaning it is killing a good many of any Coffee plant, It begins by eating all the orde feeding rook & finishing by cating the tape root. I also send you a few Coffee plant which which the grub I now send you were bury eating, What is the manu of them, Can you give one any information about them I by what means can I distroy them? as I fear they will do a lot of damage amongst my coffee. I ohall be glad to have on information that for can give one, Sorry togive you so much brough you thell Greig

18 2/15

### BRITISH MUSEUM (NATURAL HISTORY),

CROMWELL ROAD,

LONDON: S.W.

Aug. 16 12 1897

Dear Ridley,

I received your extle box with meloloutheds from Coffee - The label has not get reached mis: perhaps some post-Official will bring it sown with enquiries as on or former occasion. The bealls is a epiccies of Serica, not in our collection & probably not described. The genus is a very extensive me & the spaces exceedingly difficult to determine so I count offent

to work it out. The larved probably live at the rocts of grass, but might be sh the north of the copper itself: the former is more likely. It would I with a yellowich head. The perfect bestle I should imagine (judging from European species) would only be about a short lime. Believe one your sincerely Chap. J. Waterhouse

Cartroil BALGOWNIE ESTATE, KAJANG, SELANGOR. BX. 5/12

a dis or caterpellars BALGOWNIE ESTATE, 29# April 1899 SELANGOR. W Midley bags Oursells. Contamical fardens Decer Air Thanks very owner for your letter stringfard with infortudation as to outstrade of dealing with the cale pullage and lupe quer to sel-Man again. I at a annuber of Jananese a to assess in cleaning out the bake filler, a afthe all the easterplants were extreme -purped by West Lines, solver of the land on Com aforas revenis 1-20 has been to the the anist effection original disc dealine with the laterailar was alate ourseleasure amough fires all the rough the Acule where the mere and when the but of purthe a puller a previous cha of the conved them to had office him to the proximation and their exercises by frooding & dumped on the fire of his some damag to the copy by the fire.

(a) (pure) preliquely polly polly polly

TUP.a.

E. V. CAREY,

Telegraphic Address: "CAREY," KLANG

Datoura M

Klang,

Selangor,

Straits Settlements, 277.5.

7th clearch 190/.

A. N. Midley Eog Singapore

Dear Hidley In a cigarette tin Sam send

you two beetles which, of many pests in the way of bover and caterfollar Etc. that

are now going for Tiens Clashea, is

undoubled the most voracious. This

beast completely eats up first the sealing-

was top of the shoot, then the leaves and

finally the stem. I have put some fodder in the tin with them and you will be able

to see how much rook they have put on

between this and Singapore. Jonly found

two of the beasts, but there must be many

more about, as at least twenty promising

journe Membones have been completes Eaten

down, and I found traces of the same

creatures work on Para too. It is a

matter for congratulation that he appears to

work by day (as well as by night?), as he

makes no attempt to Escape and is Easily caught, though very careful handling is advisable as he draws blood freely when he fisces on to you.

In a match box dam sending jou an active little caterfillar which also feeds on the Hembong; if you want any more let me know; on another estate suite recents found numbers of a loop caterpillar, the fellow that stiffens himself out straight and motionless, and so closely resembles a dead living that he is very difficult to see, He is rather like the Gardenia loop caterpillar only thicker, and he does an auful amount of damage. The Bee Hawk cloth has been very active lates and has cost two Estates that I have, many hundreds of dollars to keep in check. Veril this is a terrible country for insect pests: suppose it is owing to the proximit of so many thousands of acres of jungle? an inclined to think that Kladdie or Chinese Jam brings along a lot of these things with it too. Journ Sinceres

Er Carro

### STRAITS SETTLEMENTS.

Paper to be laid before the Legislative Council by Command of His Excellency the Governor.

GENERAL HOSPITAL,

Singapore, May 23rd, 1887.

SIR,—The beetles which are destructive to cocoa-nut trees in Singapore are of two species, as Mr. MEREWETHER has stated in his Report, named respectively Oryctes nasicornis, and Calandra palmarum, and they commit their ravages in totally distinct ways.

I. Oryctes nasicornis.—This is the common elephant, or more appropriately rhinoceros beetle, a large black or dark brown insect with a long curved horn on its head, this appendage being much more developed in the male than in the female.

The mischief done to cocoa-nut trees by this species is done by the adult insect, which feeds on the soft woody fibre in the crown of the tree. The beetle bores its way into the head of the tree, commencing generally partly under cover of the sheath of one of the leaves, and gradually eats its way into the centre of the heart, taking about four or five or more days in the process, and dividing as it goes any folded leaf or fruit-stalk which may lie in its way. When it has reached the centre of the heart, it bores no further, eats out as much as it wants, and comes out again. This beetle does not at once kill the tree, but it is very likely that trees severely attacked by several beetles may become weak, and die gradually.

The results of the ravages of this beetle are seen in deformity of the heads of trees, consequent on the cutting through of the young folded leaves. The centre shoot of the tree if cut through drops off, and leaves that have been cut through, when they unfold and grow, instead of presenting the normal appearance of a feather, are stunted and look like the ribs of a fan, or a quill-pen that has been cut across through the feather to the midrib. Fruit-stalks may also be cut through in the course of this beetle's boring to the centre of the tree, and the tree may be thus damaged in its fruit-bearing capabilities.

This beetle, I believe, invariably commences its boring in the night.

The place where one of these beetles has entered a tree may be known by the projection from its hole of entry of a lump of moist brown fibre, which the beetle throws out behind it as it bores its way. This is easy to see in a young tree, but not so easy when the tree becomes tall. If immediately on the appearance of one of these lumps of fibre the beetle is extracted, it will not have had time to do any real damage, but if the lump of fibre be unnoticed, the next sign of the presence of the beetle is, as Mr. Crane states in his Report, the falling of the centre shoot of the tree, which has been cut through.

This beetle is very active towards the end of the year, in October and November. I believe it is also active in the early Spring months. It lays its eggs, and the grubs are hatched in decaying stumps of cocoa-nut trees, and in other places as described in the various Reports. I have only seen the grubs myself in rotten cocoa-nut stumps. The grubs are hatched certainly about November, but perhaps also at other times.

H. The Calandra palmarum.—This is a beetle of a totally different kind. It belongs to the Curculionidæ or Weevils. It is a beetle of a black colour, with an orange spot on its back, or is sometimes almost entirely of a dark orange colour. It has no boring apparatus, but a hard proboscis, about half an inch long, the whole length of the beetle, including proboscis, being about 2 to  $2\frac{1}{4}$  inches.

This beetle does not itself do any damage to the trees, the damage is done by its larva or grub. The beetle lays its eggs somewhere on the cocoa-nut tree, I have not been able to find out where, but I think either near the ground or in the neighbourhood of the head of the tree. As soon as an egg is hatched, the grub, which is armed with strong boring jaws, bores its way into the tree, and, eating as it goes, and gradu-

ally increasing in size, makes long tunnels through the wood of the tree. Of course in its wanderings it may eat through the growing part of the tree, and so kill it. When it has attained its full size, it finishes its boring quite close to the outer surface of the tree, near the head, and makes a large cocoon of the fibre of the wood, and thence when its transformation is complete, the beetle easily bursts its way out. The Malays think that the beetle bores in at the place where its cocoon is found, makes the cocoon or nest, and thence sends its grubs to bore the tree, thus reversing the real course of

The presence of this beetle, or rather of its grub, in a tree, can only be known by

hearing it bore, or suspected from the death of the tree without obvious cause.

More information is wanted as to the Oryctes with reference to its seasons of activity, and its seasons for breeding; and as to the Calandra, with reference to its place for depositing its eggs. This place will be found to be either some crevice in the bark, or some deep spot under cover of a leaf sheath, or possibly the ground at the root of the tree.

The steps to be taken to prevent destruction of cocoa-nut trees by these insects

are in my opinion as follows:-

1. All beetles of both kinds I have described should be destroyed when found. Possibly it might be advisable that the Government should offer a small reward for

their destruction.

2. No dead cocoa-nut trees, or rotten stumps should be allowed to remain in or near cocoa-nut plantations, and trees not dead but irrecoverably damaged and deformed by the ravages of beetles should be cut down and burnt. It is very important that this step be insisted on in the case of natives who have perhaps a few cocoa-nut trees, of which they are utterly careless, near large plantations. It should be made penal for any one to allow a rotten cocoa-nut stump, or a dead tree, to remain on his property in the neighbourhood of other trees.

3. Careful daily inspections should be made of trees, especially young trees, in order that the entrance of the Oryctes may be seen at once, and the beetle be extract-

ed and killed.

4. No heaps of manure, or any material known to serve as breeding ground for

the Oryctes should be allowed to remain in or near cocoa-nut plantations.

5. If a tree be found to be attacked by the grub of the Calandra, it should be cut down at once and effectually destroyed, in order that all the grubs that may be in it may be killed.

Additional information on points I have alluded to above will simplify some of the

remedial measures.

I have, &c.,

MAX. F. SIMON, Acting Principal Civil Medical Officer, S.S.



It is requested that the following number be quoted in the reply to this letter. Colonial Secretary's Office,

SINGAPORE, Jebranary, 18 90.

Garden of 83 With reference to your letter of the 11th faminary embraging your remarks upon the report of the official Committee of the Legislative Council in the Comme The Preservation Bill I am directed to transmit to you The endouch copy of the amendment nhe Director of the Balanie Mandene,

fourment intended more
when the bill is convidend
in Committee by the Corneil
of have the homer to be

ship

your old dient servant

#### THE COCO-NUT TREES PRESERVATION BILL.

Amendment to be moved by Mr. Attorney-General.

For clause 2, substitute the following:-

"2. It shall be the duty of the owner or person in charge of ers of cocoers of cocoers of coconut tree which is dead or is attacked by the beetle nut trees atsecondly described in the schedule forthwith to uproot such tree tacked by
and either to consume it with fire or to bury it in the ground beciles to upat a depth of not less than three feet or to keep it completely troy tree.

submerged in water so that the beetle and all eggs and larvæ
thereof may be totally destroyed and that the tree may not
serve as a breeding place for any or either of the beetles in the
schedule mentioned."

Clause 3, line 18—after the word "Forests" insert the following:—

"or the District Officer or such other Officer as the Governor may appoint in that behalf."

Clause 4, line 26—after "Forests" insert "or the District Offi-"cer or such other Officer as aforesaid"

Line, 28—after "Director" insert "District Officer or other Officer".

For Clause 5, substitute the following:—

5 "All Officers of the Government Gardens and Forest Depart-Forest officers ment and the District Officer and his assistants and any such to have access other officer as aforesaid shall have access at all reasonable to coco-nut times into and upon any land whereon any coco-nut tree is plantations and adjacent growing for the purpose of inspecting such tree and also into land. "and upon any land or premises where there is reason to suppose that there are any such things as in the last preceding section are referred to."

Batton care Gunten and the same of th The same of the state of the st And the second of the second o have the housing to pour the Jollowing rim as he as the Supering the Selectionmittee of the Legis latein Council on the Coco-met Tree preservation belle. Paragraph i The hees kelled by lightning and other causes are included in Sect 4 of the bill The whole of the horagraph as under that of alcons. the totale reports deal exclusively with the block beette. Freely were the black best the only evening the bell and Stand, could be receive somplefies. The sed bette the norman to be her Ilausider it even war dangerous than the black on. feetiere while it is compare timby easy to suppressite block our. it is may receich more defficerto to clay lack the rectione, owing to its leabets, sit is also recent more Ald to blatie when allacked it would aking with serverthing it is required to remember our preat-characteristic and them wed that is the loos in which are west which may contin. he doing Manual Maniage pt are time seed of & alpresent quite unaccountably developer in la frederion muches and alisabetely the states the country in which it had previously niglected, I do not theister any toll would be completely satisfactory that did hat einclude the Par. 2. Tolerry trees at a depth of how feet is ensufficient Even if they do not contain any heetter lawn when berief I have found the grubs at quite as treat a defith as the 88.5/26

parily three feet depth if the only few tree were be race tofaller recorded be safe, Mon for muting of primo. ast the section suggested in place of test 2, It's not see how the owner is to destroy the egg. which air way Munito escapely charrington hie a healing er ende strong acid Ido nother becie that are on ordening owner could find the eggs at all For 3. In car bearly an improvement faculting the Government wights appoint for a frame at lease an Serepenter of Cacount plantation, Party latertaly Calculated to is sale for the in as might as it is ever more much ving the Hestriction of likely places for beather to his in Containing her section, suggester in place of Section Sect A: receire Collegaate. Sect B. appears cumbrous, and difficult to composit Supposing a person ha a garden, which produces a certain presentity of out grass, dead sticks and leaves must be have a freeince for their rubbish, how langues he keep in before him Dar s. In puliages more satisfacting as it is more soverfring the and more comprehensive, insection to of the against the same of the Car. 6. Is perfectly him, if the red lice the is enclosed from the bill frees producing locales may be infered for a considerable time by the restrectte, before dying. Shere was an watere of that here a short time or That sterimented the black butte, but still res beetles The state of the s

palm which was looking a lettle would have in the prome for some makes was even with a format of the real tester. Leave & locations were from there in the affarently for on for some weeks, as her there is the contract that affarently for on for some weeks, as her there were every show them.

The affare here descent hello them some is so so the some way show them.

The Perale Romelo Groth.

Mephopting & sagittiferella, how sp. Moone.

From No. 1. 901.2. of Indian Muslim Hoter.

From M. d. Wany for landor of the Merch Mudeum;

Were received in October 18 go Specimens of the moth

Shick he has found destruction to promedoes, lines,
and lemons in Persh. The specimens were forwarded

to Noz F. Moore, Who identified them as belonging to
a new species of Phycitide which he describes as

Rephopteryx sagittiferelle. The following is his
ales cription:—

"Closely whied to M. physostigmalis, harther, described in the Proceedings of the Moyal Physical Society of Edinburgh. for 1869, the lava of Mich is stated to feed whom the "Isere" or Ordeal Bean "of Old Calabar.

brown, the costal area and between the order veins silvery-grey; on the diseal area a transverse curved series of clongated very acute sagittate points; which are blackest and with a grayish order line; at the end of the order veins is a promuned blackest pointed—dot. Hind was also broader, Jude, purkers concress, wherey-grey along the auterior border / not brown, as in M. phypostic males); were externably, and the very wall the very suited of clial line, brown. Body dark cinerous brown; head, thoras, pulpi, autemas, fire trainfolds begg forestiments.

brown; huid legs feale einersons horse.
" Sapanse of wings & 1, 9 12 wiels. Habitat - Ferik!

It is requested that the following number be quoted in the reply to this letter.

A. 4 in Ent: 100/1925.



DEPARTMENT OF AGRICULTURE,
STRAITS SETTLEMENTS

8

FEDERATED MALAY STATES.

Kuala Lumpur,

18th. June, 1925.

Dear Holttum,

The information in your letter of the 17th. is most useful. The insect was sent in from Ipoh at the beginning of last year, but was probably present there some time before, about the same time or just after it appeared at Singapore.

Whether it could have been taken from Singapore to Ipoh, or whether the outbreak was general in the country, the beast having been here all the time, is difficult to say. On the other hand it might have been brought in at both localities. Unfortunately there are scarcely any records of Coccidae in Malaya, so it will be likely to remain a mystery. The fact that the attacks are much less severe now may be due to a return to control which existed before, but we have so many general predators in Coccids that it is possible that it is the latter which are now keeping the pest under.

Yours sincerely,

B. A. R. Gater,

Ag: Government Entomologist,

S.S. & F.M.S.

The Ag: Director,

Botanic Gardens,

Singapore.

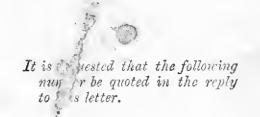
Fair Copy signed by

To

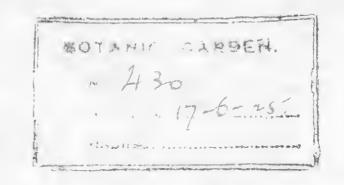
Tehnolysi Deph Depricultine

Sir. Dear Galer, 2 rept by letter 100/25 Eur. of yesterday's date, the Liston of l'heraeveur cenjoides, so far es d Tune, is as follows. July 1923 it was first brught- 15 mg notice, as attacking violents and trees at the Town end of Bulist Timah Road. It was then ofreading rapidly, and the had already travelled a long hay, but bases wanter, some year extinded much further, who Salary certainly throughout the lan men of Singapore. The violence of its attack and the rapidity of its spreading seem 16 midreale that it musthave nemly arrived here not lung previous 6 its fish observation, His has her thea say aboutthe beginning of 1923. When I find. saw it, it bitarally smothered all the young hings of the hers. mi some localities. was the sound of the sou the the while løbe forms everywhere hut I think is mor so serious in its effects as formerly.

4 somether



(2) JA 100/1925 Ent:



DEPARTMENT OF AGRICULTURE,
STRAITS SETTLEMENTS

8

FEDERATED MALAY STATES.

Kuala Lumpur,
16th. April, 1025.

Dear Holttum,

Very many thanks for your letter of the 15th.

inst. enclosing a list of food plants of Phenacoccus icervoides,

which is most interesting.

I believe you mentioned that it was thought that this insect was imported. Cab you give me any details, because we had some from Ipoh a long time ago and it would be rather interesting to follow it up?

Pseudococcus bromeliae we have had before on pineapples from Johore; Alecanium hirsutum is a new record.

Yours sincerely,

B. A.R. Gater,

Ag: Government Emtomologist,

S.S. & F.M.S.

The Ag: Director,

Botanic Gardens,

Singapore,

S.S.

## Imperial Bureau of Entomology

Head Office at-

Director:

GUY A. K. MARSHALL, C.M.G., D.Sc., F.R.S.

Assistant Director:

S. A. NEAVE, D.Sc.

BRITISH MUSEUM (NATURAL HISTORY),

CROMWELL ROAD, LONDON, S.W. 7

20th May, 1925.

Dear Sir,

I have to acknowledge the receipt of your letter of the 26th February, and regret that it has taken some time to secure the identifications of the various Coccidae which you then sent us. These have now been identified by Mr. F. Laing, and I enclose a list of the names. In the great majority of cases the insect proved to be Phenacoccus iceryoides which seems to have secured a fairly wide hold on your vegetation.

We are very glad to be able to secure records of all these various host-plants.

Thanking you for the material you have kindly sent us.

I remain,

Yours very truly,

List No. 346 (Asia).

Director.

J. H. Burkill, Esq., Director, Botanic Gardens, Singapore.

B8-5/33

OF ENTOMOLOGY

List No. 346 (Asia).

18. v. 1925.

### Identification of Coccidae

#### From SINGAPORE

### Submitted by

The Director of the Botanic Gardens.

#### RHYNCHOTA.

#### COCCIDAE.

Pseudococcus bromeliae, Bche - on Caryota urene.

Alecanium hirautum, Morrison - on Dialium ? Laurinum.

Palaeococcus sp. or Icerya sp. (young specimens, not identifiable)

- on Uvaria rufa.

Phenacoccus iceryoides, Green - on Viter pubescens.

Phenacoccus icervoides, Green - on Podocarpus australis.

Phenacoccus iceryoides, Green - on Bignonia magnifica.

Phenacoccus iceryoides, Green - on Pithecolobium saman.

Phenacoccus iceryoides, Green - on Claoxylum indicum.

Phenacoccus iceryoides, Green - on Achras sapota.

Phenacoccus iceryoides, Green (young specimens) - on Phyllanthus sp.

Phenacoccus iceryoides, Green - on Ficus alba.

Phonacoccus iceryoides, Green - on Poinciana regia.

Phenacoccus iceryoides, Green - on Cassia fistula.

Fair Copy signed by

15/0/25

To

Metulondquis Dept. d'Agriculture Sear Garen, An ometime Burule sert a minute of specimens! escends in spirit to the Imperial Bureau & Kniondogy. They were I identified by hu F. Laving, and proved to be principally Theracorcus icen vides. It many mterest-you to have a copy of te list, which I attach, of fitte sake of the infraction Which it gwis as to the annivorous habits of the and duplicates were

Please type a copy of the list- sattach

9

Fair Copy signed by

15,1,4-

То

Dean Sir.

Lave to accertable ite seeming of Correidae (Lis mo. 346 identifications of Correidae (Lis mo. 346)

Inspirated to

Drein Sheway

Cronswell Road

Ludan Sto. 7.

Dear Mr. Holttum,

Many thanks for sending me the two parts of GOE-BEL'S ORGANOGRAPHY.

We are having here an unsually wet weather which began with a very severe steem on last Sunday evening. Fortunately it did very little damage in the Gardens, though the Water-Reservoir up in the Gardens was very badly damaged so as necessitate its immediate emptying and repairing. On Monday last when the storm had almost subsided, the black monkeys PRESEYTES OBSCURUS braved to come epenly in the Gardens and parasities on the Albissia moluccana in lawn E. Them plucking I watched them for sometime and noticed their half which are tender and fleshy. I didn't observe them eating branch-tips as recorded by Er. Burkill in his last years report. Increases I examined some twigs and found their tips intact. Probably later on when the leave are scarce they eat branch-tips to satisfy their hunger.

I have posted inxyanxion yesterday two parcels of specimens for mounting. I suggest the specimens be thoroughly poisoned more than once as we have nobody here who understands that sort of work properly.

Please send some cover-sheets for our Herbarium specimens here, as without them the mounted specimens are liable to damaged soon,

There are recorded in Ridley's Flora many plants from Penang which we have not in Penang Herbarium. Are there no duplicates of these in Singapore which could be spared for us, I wonder?

Yours sincerely

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It is requested that the following number be quoted in the reply to this letter.

So 2 in Ent: 54/1925.

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DEPARTMENT OF AGRICULTURE,
STRAITS SETTLEMENTS

&

FEDERATED MALAY STATES.
5th. March, 1925,

Dear Holthum

Many thanks for the scale insects on Aphelandra, which arrived safely. They appear to be Saissetia hemisphaericum, Targ. which is common in this country, and among a great number of other plants attacks coffee, cinchona, tea, gardenia, guava, loranthus and bamboo. It was not, therefor, imported with the plant.

The other scale which I collected on Crossand A, Cleod-endron, Thunbergia, Timea and other plants (the one with the long wax "tail") appears to be Orthezia insignis, Dougl. which also almost omnivorous. It is not mentioned in the Dutch literature, so was probably imported from Ceylon.

The labter insect is particularly resistant to insecticides, but I should try a well made kerosene emulsion (kerosene 2 galls., soap ½ lb. water 1 gall) diluted 1:10.

Yours sincerely,

B.A.R. Gater,

Ag: Government Entomologist,

S.S.& F.M.S.

Ag: Director of Gardens,

S.S.

Singapore.

· ha Lulas,

please see Kllr.

6.3.75

138.5/38